

In the Claims

1. (Original) Temperature sensor device that allows changes of temperature to be detected as some of the components therein are deformed, comprising
a hollow body formed by two shells (2),
a structure (8) provided in the interior (7) of the hollow body,
and a number of bolts (5) that join said shells (2) together,
characterized in that one of the bolts (5) and the structure (8) are provided with electrical terminals (9) separated at a distance (12), said distance (12) being defined according to the deformation or expansion coefficient of said bolt (5) and structure (8), allowing contact between electrical terminals (9) once a critical temperature is reached.

2. (Original)- Temperature sensor device, according to claim 1, characterised in that in the interior face of the shells (2), a number of tiered cylindrical ledges (3) are provided, preferably equidistant, that have a number of blind apertures (4).

3. (Currently Amended) - Temperature sensor device, according to claim 1 ~~previous claims~~, characterised in that the body formed by the two shells has a cylindrical configuration with rounded ends, having an outlet channel (6) in one of said ends.

4. (Currently Amended) - Temperature sensor device, according to claim 1 ~~previous claims~~, characterized in that the bolts (5) are tightly introduced into the blind orifices (4) of the cylindrical ledges (3), thus coupling the shells (2).

5.(Currently Amended) - Temperature sensor device, according to claim 1 ~~claims 1 and 4~~, characterized in that the structure (8) has a rectangular shape and in one of their ends it has a bolt (5) that joins the shells (2), said bolt (5) being integral with the structure (8) or detachable.

6.(Original)- Temperature sensor device, according to claim 5, characterized in that the structure (8) has an electrical terminal (9) at the opposite end to which said bolt (5) is located.

7.(Currently Amended) - Temperature sensor device, according to claim 1 ~~previous claims~~, characterized in that the bolts (5) have cylindrical shape with the rounded ends.

8.(Original) - Temperature sensor device, according to claim 1, characterized in that it comprises a warning device (13) that can be a buzzer, alarms, luminous signs or fire-extinguishers activators.

9. (Currently Amended) - Temperature sensor device, according to claim 1 ~~previous claims~~, characterized in that the shells (2) and the structure (8) have same coefficients of dilation or of deformation, so that they react in the same way when being subjected to the same increase in temperature.

10.(Original) - Temperature sensor device, according to the claim 12, characterized in that the shells (2) and the structure (8) components of the device (1) are plastic obtained from a single mould or moulding operation.